

Inside Wallops

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Katrina Destruction Mapped by Plane

Wayne Wright, NASA Hydrospheric and Biospheric Sciences Laboratory; Richard Mitchell, EG&G; and Virgil Rabine, Atlantic Global Research, flew a total of 5,000 miles supporting the effort by numerous government agencies to provide detailed insight about the environmental impact caused by Hurricane Katrina.

The Experimental Advanced Airborne Research LIDAR (EAARL) system, developed by Wright and flown on a Cessna 310, collected roughly 150 gigabytes of data including 216,000 digital photos.

EAARL uses a laser to "see" through vegetation such as trees and shrubs to view the land underneath. Near the coast it mapped the beach surface under water.

Beginning Aug. 31, two days before Katrina made landfall through Sept. 8, the team flew EAARL at an altitude of 1,000 feet on 5 missions averaging 6 hours per mission.

By taking approximately 5,000 measurements per second with the laser

and two digital photos per second and comparing the data to earlier surveys, their work will be used to determine hazardous

areas and environmental losses such as beach erosion and help in the recovery of the coastline infrastructure.



Image provided by Wayne Wright

Color infrared image of a destroyed bridge on the east side of Biloxi, Miss.

Wallops Shorts.....

In the News

Times-Dispatch

Damage Assessment: Carnage Mapped by Plane. NASA Expert from Va. Surveys Destruction Along the Gulf Coast

The flag of the United States of America is to be flown at half staff until sunset on Tuesday, September 13, 2005, for Chief Justice William H. Rehnquist.



It will continue to be flown at half staff until sunset on Tuesday, September 20, 2005, for the victims of Hurricane Katrina.

Launch

Two NASA Improved Orion sounding rockets were launched from White Sands Missile Range, N.M., on September 9.

The mission was to provide a vehicle to deliver an explosive charge to a specific altitude and detonate it in order to calibrate multi-state acoustic monitoring system. Good data was obtained on both flights.

John Winstead, Naval Air Warfare Center, was the principal investigator. Bruce Scott, NASA Sounding Rocket Operations Contract, was the Mission Manager.

NASA Wallops Flight Facility 1945 – 2005

From 1958 – 1974

Wallops was known as Wallops Station.

Under the direction of Dwight D. Eisenhower, 1958 marked the birth of the civilian space program. This was to have a profound effect on the role Wallops played in the national effort. Research conducted at Wallops involved developing components for the human space program including Mercury capsule escape and recovery techniques. Wallops provided range support for Scout launch vehicles, mobile research projects and research in re-entry and life-support systems used in the human space program.

Wallops Folks,



This week there will be an audit of the Wallops Environmental Management System (EMS). The EMS is a Wallops-wide process that allows us to complete our mission while protecting our beautiful Eastern Shore environment.

The auditors will be in many work areas interviewing supervisors and employees. The primary purpose of their audit is to determine (1) the level of employee awareness for the aspects of their job that affect the environment; (2) employee's personal responsibility within the EMS; and (3) compliance with GSFC environmental policy, GPD 8500.1, located on the Goddard Directives Management System.

The audit is an important opportunity to show the outside world what a good job we all do to protect our environment. If you have any questions, please contact Bonnie Crawford at x2234.

Regards,
John Campbell

Securing Windows Server 2003 8 a.m. to 5 p.m. September 27 – 30 Building E-2

Gain the skills necessary to secure a Windows Server 2003 environment. Learn to control the privacy, integrity and authenticity of data within your organization.

The course is Center funded. Anyone interested in attending should contact Debbie Watson at x2000 or by email: Debbie.S.Watson@nasa.gov



UNDER CONSTRUCTION

Site Work This Week:

Finally, work is beginning for the Engineering Building— This week's work includes removal of trees from the site. A boom truck and chain saws will be used to trim some trees remaining near the site. There will be excavation of top soil and removal of tree roots. Construction equipment on the site will include a broom tractor for street sweeping, excavators, a dozer D-5 Caterpillar, front end loaders and dump trucks.

There will be some stock piling of top soil for future in the final grading when the project is complete. Avery Road through the site is now closed to vehicle and pedestrian traffic for the duration of the project. Parking spaces in the second row on the west side of Building E-108 adjacent to the construction fence are not available for parking. This section is now an access lane for traffic. Security will be enforcing this new traffic pattern. The back-up beepers we warned you about are now being heard.

UNDER CONSTRUCTION

Eastern Shore Community College Workforce Development and Continuing Education Class

A Building Contractor Licensing Class is scheduled on Tuesday nights from October 18 through December 6, from 6:30-9 p.m. at Arcadia High School, Oak Hall, Va. Cost is \$85.00.



Anyone interested in this class should contact Terry Ewell at x1133 as soon as possible.

Volunteering with FEMA

The Federal Emergency Management Agency (FEMA) is leading response and recovery efforts underway in the aftermath of Hurricane Katrina. To assist in these disaster relief efforts, the Department of Homeland Security is requesting volunteers from other federal agencies.

Volunteers will be asked to deploy for 30-day minimum field assignments to work with FEMA on this effort.

Employees who are interested in volunteering should read carefully the information on the Web site: <http://insidenasa.nasa.gov> to ensure you meet the requirements and are up to meeting the challenge of the working conditions that will be faced in Mississippi, New Orleans and the other affected areas.

Interested employees must have the full approval of their supervisor's prior to volunteering.

Please do not contact FEMA directly. The NASA POCs are listed on the Web site and will be able to assist you.

Inside Wallops is an official publication of Goddard Space Flight Center and is published by the Wallops Office of Public Affairs, Extension 1584, in the interest of Wallops employees. Recent and past issues of *Inside Wallops* also may be found on the NASA Wallops Flight Facility homepage: www.wff.nasa.gov

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